**Part1**

**Step1**

**R2>**en

**R2#**configure t

Enter configuration commands, one per line. End with CNTL/Z.

**R2(config)#**ip dhcp excluded-address 192.168.10.1 192.168.10.10

**R2(config)#**ip dhcp excluded-address 192.168.30.1 192.168.30.10

**Step2**

**R2(config)#**ip dhcp pool R1-LAN

**R2(dhcp-config)#**network 192.168.10.0 255.255.255.0

**R2(dhcp-config)#**dns-server 192.168.20.254

**R2(dhcp-config)#**default-router 192.168.10.1

**R2(dhcp-config)#**exit

**Step3**

**R2(config)#**ip dhcp pool R3-LAN

**R2(dhcp-config)#**network 192.168.30.0 255.255.255.0

**R2(dhcp-config)#**dns-server 192.168.20.254

**R2(dhcp-config)#**default-router 192.168.30.1

**R2(dhcp-config)#**exit

**Part2**

**Step1**

**R1**

**R1>**en

**R1#**config t

Enter configuration commands, one per line. End with CNTL/Z.

**R1(config)#**int g0/0

**R1(config-if)#**ip helper-address 10.1.1.2

**R3**

**R3>**en

**R3#**config t

Enter configuration commands, one per line. End with CNTL/Z.

**R3(config)#**int g0/0

**R3(config-if)#**ip helper-address 10.2.2.2

**Part3**

**R2(config)#**int g0/1

**R2(config-if)#**ip address dhcp

**R2(config-if)#**no shut

**R2(config-if)#**exit

**R2(config)#**exit

**R2#**show ip int brief

**Part4**

**Step1**

**R2#**show ip dhcp binding

IP address Client-ID/ Lease expiration Type

Hardware address

192.168.10.11 0002.4AA5.1470 -- Automatic

192.168.30.11 0004.9A97.2535 -- Automatic

**Step2**

ping 192.168.30.11

ping 192.168.10.11